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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	. ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,611	12/23/2004	Jehan Vanpoperynghe	034299-612	9208
Thelen Reid &	7590 08/13/200 Priest	7	EXAM	INER
PO Box 640640			LEE, BENNY T	
San Jose, CA 95164-0640			ART UNIT	PAPER NUMBER
			2817	
		·	MAIL DATE	DELIVERY MODE
			08/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/519,611	VANPOPERYNGHE ET AL.		
Office Action Summary	Examiner	Art Unit		
	Benny Lee	2817		
The MAILING DATE of this communic Period for Reply	ation appears on the cover sheet v	vith the correspondence address		
A SHORTENED STATUTORY PERIOD FO WHICHEVER IS LONGER, FROM THE MA  - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commur  - If NO period for reply is specified above, the maximum statu  - Failure to reply within the set or extended period for reply within the set o	ILING DATE OF THIS COMMUN 37 CFR 1.136(a). In no event, however, may a nication. Itory period will apply and will expire SIX (6) MO ill, by statute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status		·		
1) Responsive to communication(s) filed	on .			
•	·			
3) Since this application is in condition for	· · · · · · · · · · · · · · · · · · ·			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) ⊠ Claim(s) <u>1-6</u> is/are pending in the app 4a) Of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1 and 4</u> is/are rejected. 7) ⊠ Claim(s) <u>2,3,5 and 6</u> is/are objected to 8) ☐ Claim(s) are subject to restricti	e withdrawn from consideration.			
Application Papers				
9)⊠ The specification is objected to by the	Examiner.			
10) The drawing(s) filed on 23 December.  Applicant may not request that any object Replacement drawing sheet(s) including to	2004 is/are: a)  accepted or b)  ion to the drawing(s) be held in abeya he correction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).		
11)☐ The oath or declaration is objected to	by the Examiner. Note the attache	ed Office Action or form P1O-152.		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:  1. Certified copies of the priority d  2. Certified copies of the priority d  3. Copies of the certified copies of application from the Internation  * See the attached detailed Office action	ocuments have been received. ocuments have been received in f the priority documents have bee al Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage		
Attachment(s)	•			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)		
Notice of Draftsperson's Patent Drawing Review (PT 3) Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date		o(s)/Mail Date Informal Patent Application 		

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The disclosure is objected to because of the following informalities: In replacement paragraph [0019], fourth line therein, note that "from outside" should be deleted as being unnecessary for an appropriate characterization. Page 6, paragraph [0027], note that --(FIG. 3A) -- should be inserted after "contacts 2" for consistency with the drawing figure. Page 7, paragraph [0032], note that --as best shown in FIG. 3A-- should be inserted after "rings C and D" for clarity of description. Appropriate correction is required.

The drawings are objected to because of the following: With respect to one or both of drawing figures 3A & 3B, note that parameters (a, 2a, 3a, 4a) as described in paragraph [0033]. need to be labeled. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The following claims have been found objectionable for reasons set forth below:

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In claim 1, line 4, note that a --,-- should be inserted after "F" for grammatical correctness.

In claim 2, lines 7, 9, note that --at least one-- should be inserted prior to each occurrence of "lead screw" for consistency in claim terminology; line 9, note that --set of-- should be inserted between "the" & "rings" for consistency in claim terminology.

In claim 5, line 2, note that "made" should be rewritten as --comprised-- for an appropriate characterization.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Woods (of record).

Woods discloses an electron beam tube (i.e. a velocity modulated tube 11, such as a klystron) comprising: at least two tunable cavities having movable tuning flanges (e.g. 46, 49), which correspond to the "rings" recited in applicants' claims. Note that the flanges or "rings" are associated with respective ones of the cavities in the electron beam tube and are mechanically movable (e.g. via adjusting screw 33), such that the respective tuning flanges or "rings" establish a periodic relationship with respect to fixed flange or ring (44) and thus provide a varying frequency for the respective tunable cavities.

Applicant's arguments filed 5 June 2007 have been fully considered but they are not persuasive.

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Regarding the drawing objection to parameters (a, 2a, 3a, 4a), applicants' arguments have been considered, but found to be unpersuasive. It should be noted that these parameters have been defined in the specification as "pitches" (i.e. a physical spacing) in the structure and as such is a feature (i.e. a dimension), which can be and should be depicted in the drawing figure.

Regarding the prior art rejection, applicants' have asserted that the adjustable cavities in Woods are located *outside* the tube, and as such does not meet the claimed limitation that the rings are located *inside the tube*.

Applicants' argument has been considered, but has been found unpersuasive. It should be noted that in Woods that the *tube* (11) is defined in part by the vacuum envelope (i.e. those portions of tube (11) surrounding the emitter and collector) which are vacuum sealed to the conductive structure of tube (11) which includes fixed flange (44) and movable flanges (46, 49). Since those flanges are sealed with respect to the vacuum envelope, then it would stand to reason that flanges (46, 49), corresponding to the claimed "rings", constitute at least a part of the tube (11) and as such would have been considered to have be at least portion thereof *inside the tube*, as would have been recognized by those of ordinary skill in the art. Therefore, contrary to applicants' assertion, Woods does indeed meet every limitation in the claims, and thus anticipates these claims.

Claims 2, 3, 5, 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Benny Lee at telephone number 571 272 1764.

B. Lee

BENNY T. LEE PRIMARY EXAMINER ART UNIT 2817